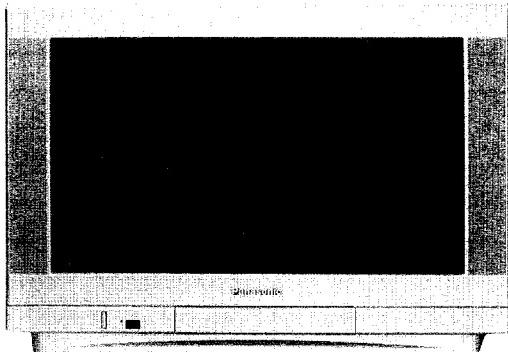


Service Manual



Colour Television

TX-24DX1

EURO-4 Chassis

SPECIFICATIONS

Power Source: 220-240V a.c., 50Hz

Power Consumption: 77W

Stand-by Power Consumption: 1,4W

Aerial Impedance: 75Ω unbalanced, Coaxial Type

Receiving System: PAL I, PAL-525/60
M.NTSC
NTSC (AV only)

Receiving Channels: UHF E21-E69

Intermediate Frequency:

Video/Audio

Video	39,5MHz
Audio	33,5MHz
	32,95MHz (NICAM)
Colour	35,07MHz

Terminals:

AV1 IN	Audio (RCAx2) 500mV 1kΩ Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)
AV1 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
AV2 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ S-Video IN Y: 1V p-p 75Ω (21-pin) C: 0,3V p-p 75Ω

AV2 OUT

Video (21 pin) 1V p-p 75Ω
Audio (21 pin) 500mV rms 1kΩ
S-Video IN Y: 1V p-p 75Ω
(4-pin) C: 0,3V p-p 75Ω
Audio (RCAx2) 500mV rms 10kΩ
Video (RCAx1) 1V p-p 75Ω

AV3 IN

28,2kV ± 1kV

Picture Tube:

W56ESF002X03 56cm

Audio Output:
(Music Power)

Front Left/Right 2 x 15W
8Ω Impedance

Headphones:

8Ω Impedance
3,5mm

Accessories supplied :

Remote Control
2 x R6 (UM3) Batteries
TV Stand TS-2800 or TS-2800S

Dimensions:

Height:
620mm
Width:
432mm
Depth:
455mm

Net weight:

26kg

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4 Technical guide.

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

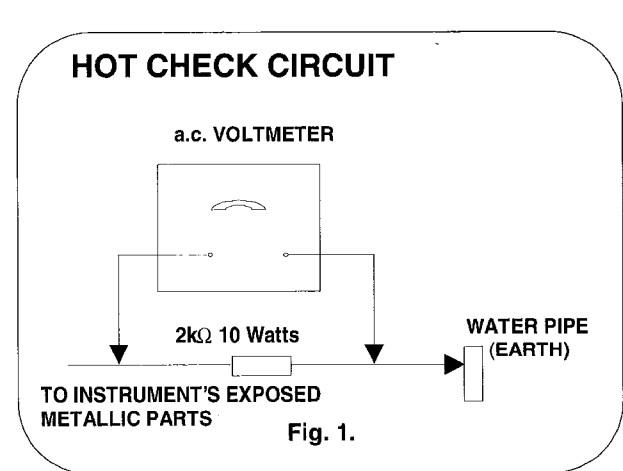
1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 29,2kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a $2k\Omega$, 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.



4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4VRms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 29,2kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate $28,2kV \pm 1kV$. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 9 screws as shown in Fig.2.

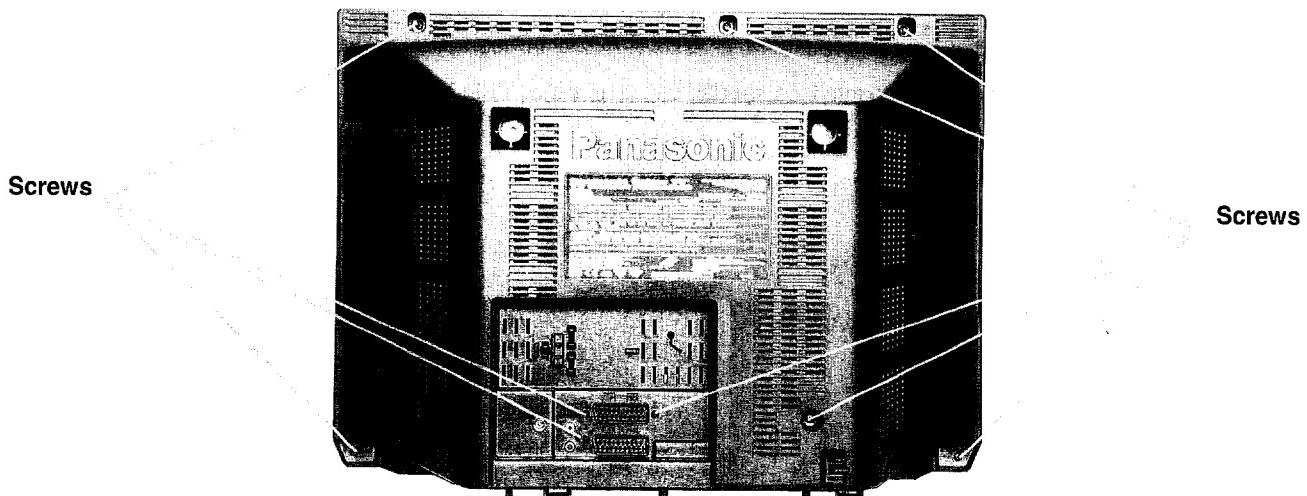


Fig.2.

LOCATION OF CONTROLS

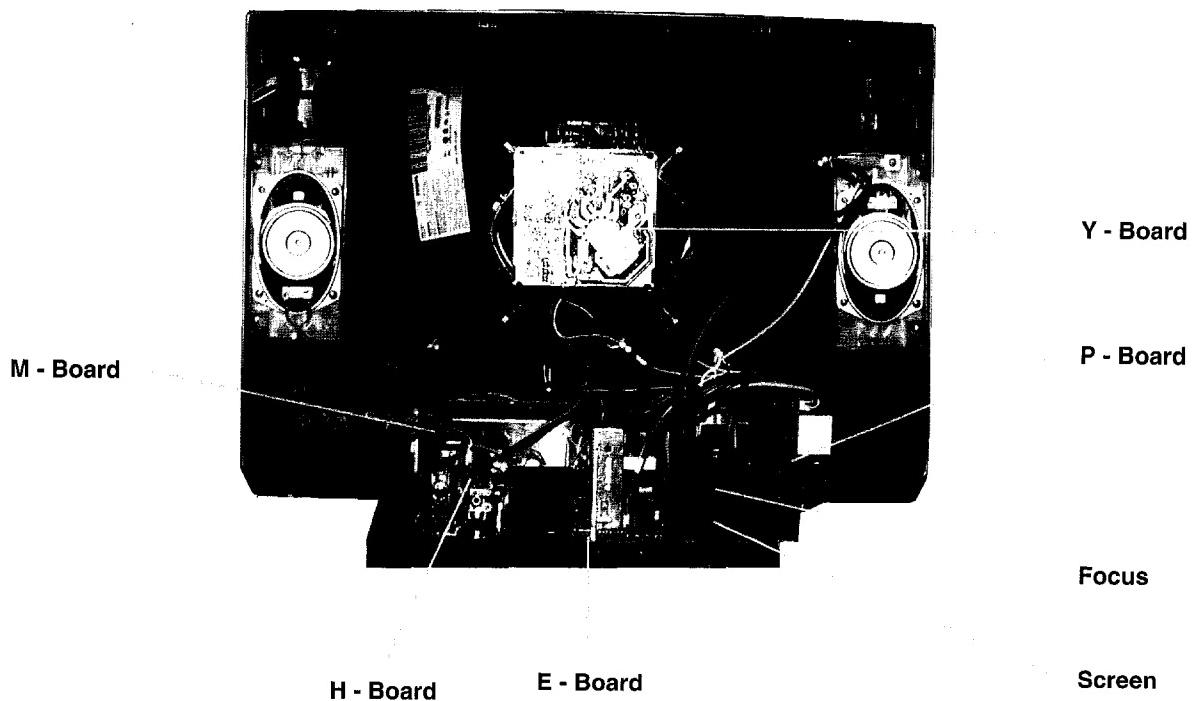


Fig.3.

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove 2 screws (**A**), as shown in **Fig.4.**, and remove speaker assembly.
2. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig.5.**
3. Release the respective wiring clips and rotate the chassis vertically through 90° clockwise.
4. Locate the base of the chassis frame into location (**B**), shown in **Fig.6. / Fig.8.**
5. Screw the chassis frame onto the cabinet, shown in **Fig.6. / Fig.7.**
6. After servicing replace the bead clamper and speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.

(A)

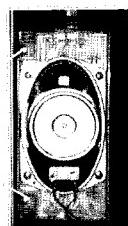


Fig.4.

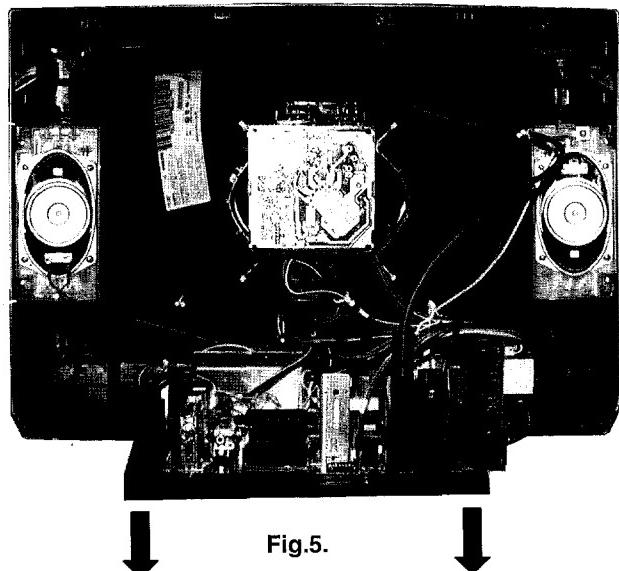


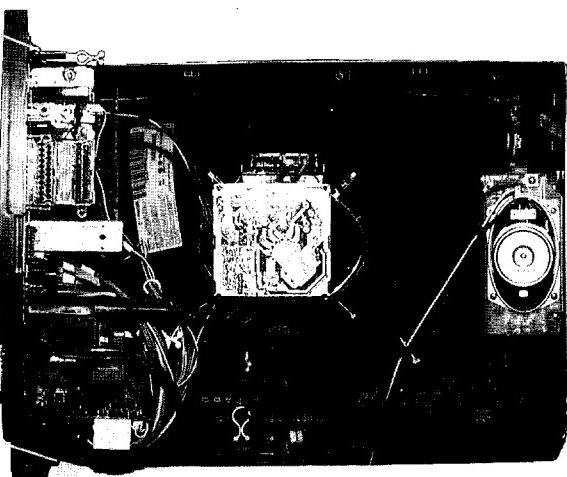
Fig.5.



Fig.7.



Fig.8.



(B)

Fig.6.

ADJUSTMENT PROCEDURE

Item / Preparation	Adjustments																																																
+B SET-UP	1. Set the +B voltage up as follows:- Adjust R811 so that B2 shows $148V \pm 1V$. 2. Confirm the following voltages. <table style="margin-left: 20px;"> <tr><td>B9</td><td>5</td><td>\pm</td><td>0.25V</td><td>B10</td><td>5</td><td>\pm</td><td>0.25V</td></tr> <tr><td>B5</td><td>12</td><td>\pm</td><td>0.5V</td><td>B11</td><td>33</td><td>\pm</td><td>1.5V</td></tr> <tr><td>B4</td><td>16</td><td>\pm</td><td>1V</td><td>B7</td><td>8</td><td>\pm</td><td>0.5V</td></tr> <tr><td>B12</td><td>26</td><td>\pm</td><td>1V</td><td>B8</td><td>5.5</td><td>\pm</td><td>0.5V</td></tr> <tr><td>B3</td><td>35</td><td>\pm</td><td>1V</td><td>B13</td><td>15</td><td>\pm</td><td>1V</td></tr> <tr><td>B1</td><td>200</td><td>\pm</td><td>10V</td><td>B14</td><td>-15</td><td>\pm</td><td>1V</td></tr> </table>	B9	5	\pm	0.25V	B10	5	\pm	0.25V	B5	12	\pm	0.5V	B11	33	\pm	1.5V	B4	16	\pm	1V	B7	8	\pm	0.5V	B12	26	\pm	1V	B8	5.5	\pm	0.5V	B3	35	\pm	1V	B13	15	\pm	1V	B1	200	\pm	10V	B14	-15	\pm	1V
B9	5	\pm	0.25V	B10	5	\pm	0.25V																																										
B5	12	\pm	0.5V	B11	33	\pm	1.5V																																										
B4	16	\pm	1V	B7	8	\pm	0.5V																																										
B12	26	\pm	1V	B8	5.5	\pm	0.5V																																										
B3	35	\pm	1V	B13	15	\pm	1V																																										
B1	200	\pm	10V	B14	-15	\pm	1V																																										
CUT OFF / Ug2 Test	To adjust Cutoff connect an oscilloscope to the Blue cathode. Press "STR" and adjust "cutoff" value using the "Yellow" and "Blue" buttons until the black level is $160V \pm 5V$ press "STR" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."																																																
1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode.																																																	

FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down (-v) button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button (+) on the remote control. To exit Self Check, switch off the TV set at the power button.

NOTE: Self Check should only be used when refurbishing the TV set and not during normal repair work.

VDP	O.K.	PCB	O.K.
TUN	O.K.	Cab	O.K.
E2	O.K.	Sum	Factory use only
MSP	O.K.		
DPL	--		
OPTION 1	00		
OPTION 2	81		
OPTION 3	02		
OPTION 4	00		
OPTION 5	B1		
OPTION 6	E9		

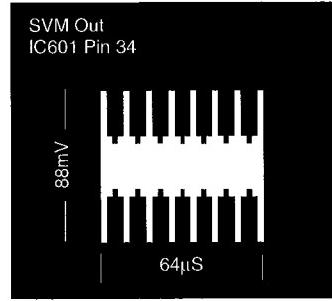
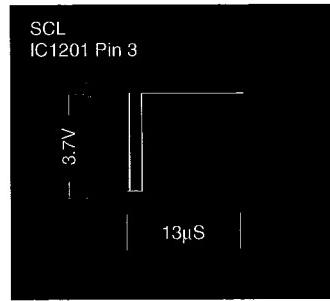
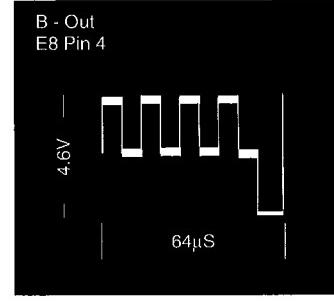
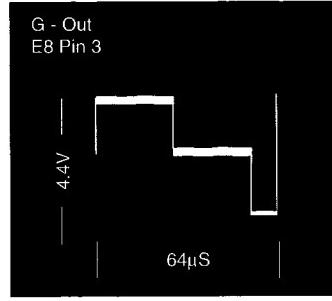
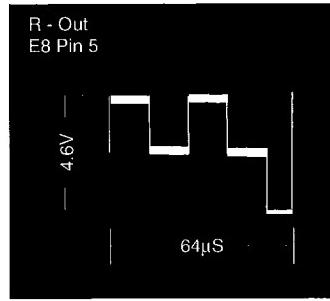
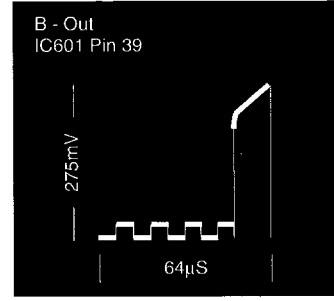
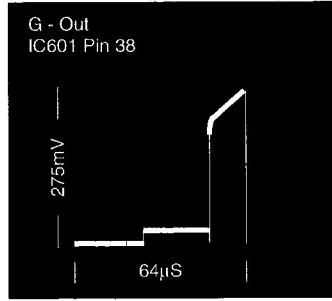
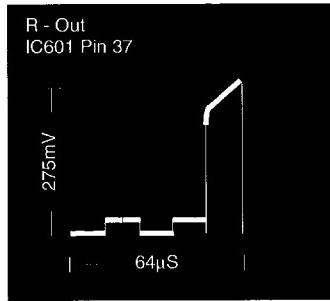
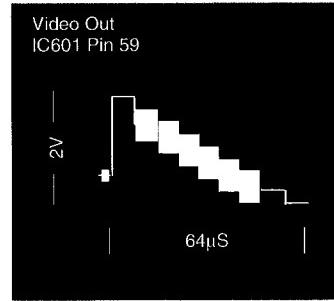
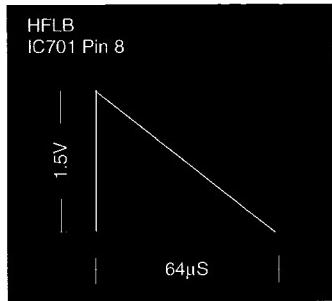
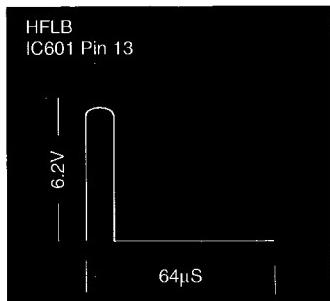
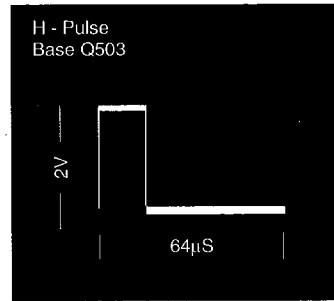
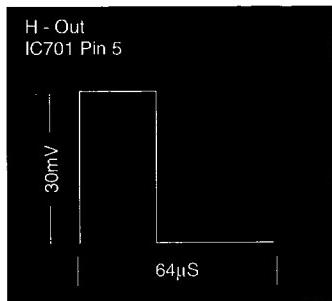
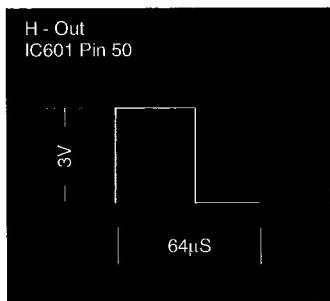
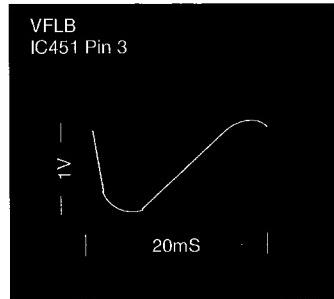
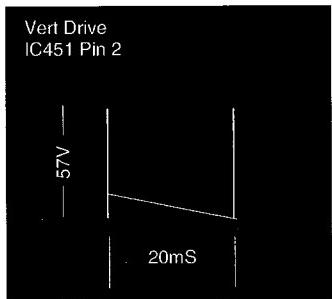
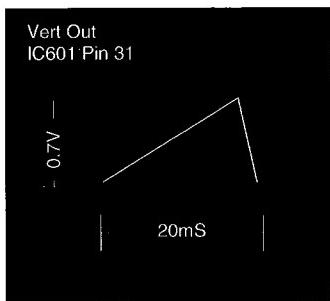
If the CCU ports have been checked and found to be incorrect or not located then " -- " will appear in place of "O.K.".

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

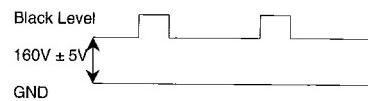
- **LUCI** interface kit (**Linked Utility Computer Interface**)
Part number: TZS6EZ002
This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- **VICI** (**Visual Interactive Computer Information**)
These C.D.'s contain multimedia documentation providing quick access to service information.
Part No. TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001
1. Service Manuals
2. Instruction Books
3. Technical Information
- **TASMIN** (**Technically Advanced System for Multimedia Interactive Notes**)
As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

WAVEFORM PATTERN TABLE

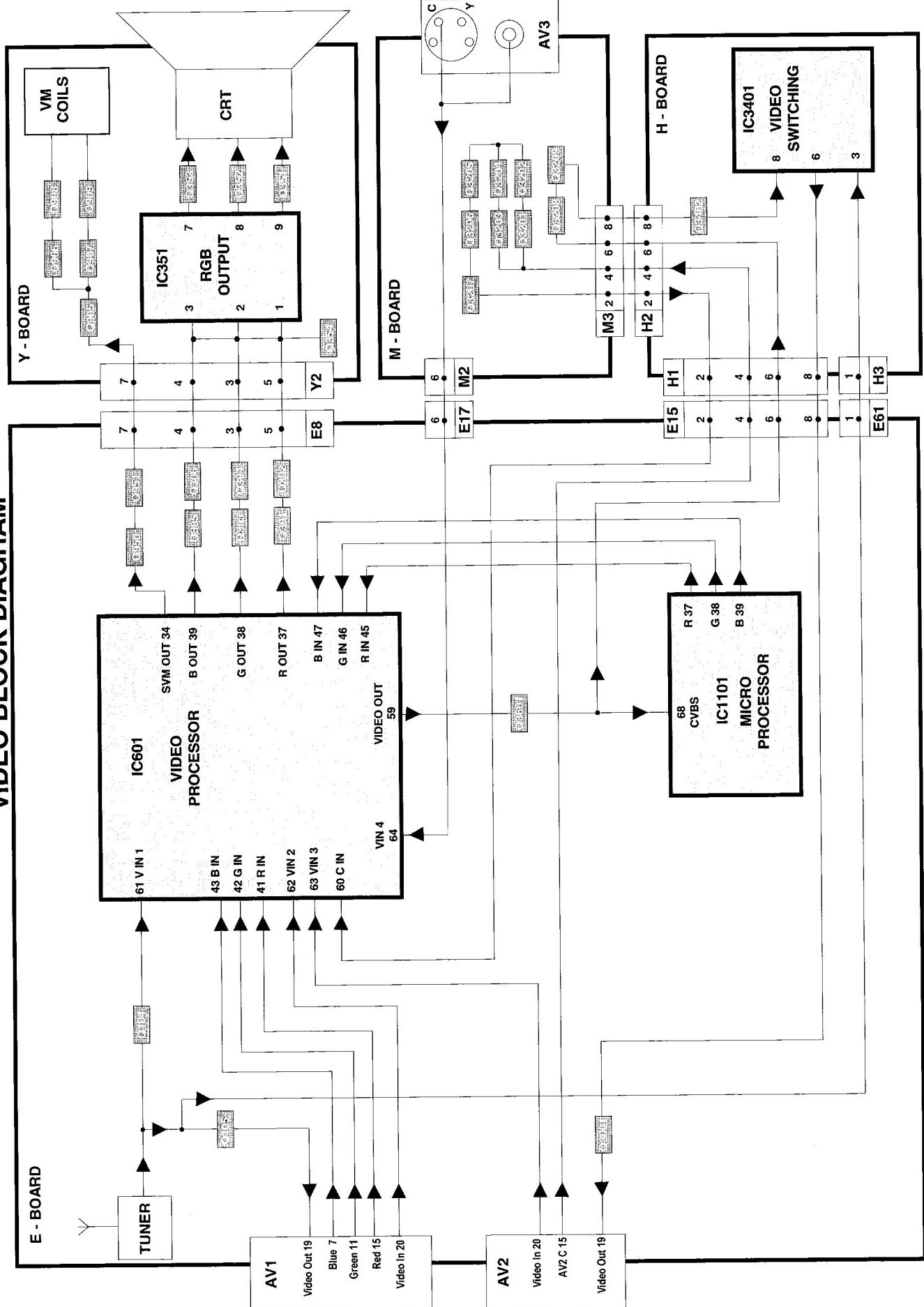


ALIGNMENT SETTINGS

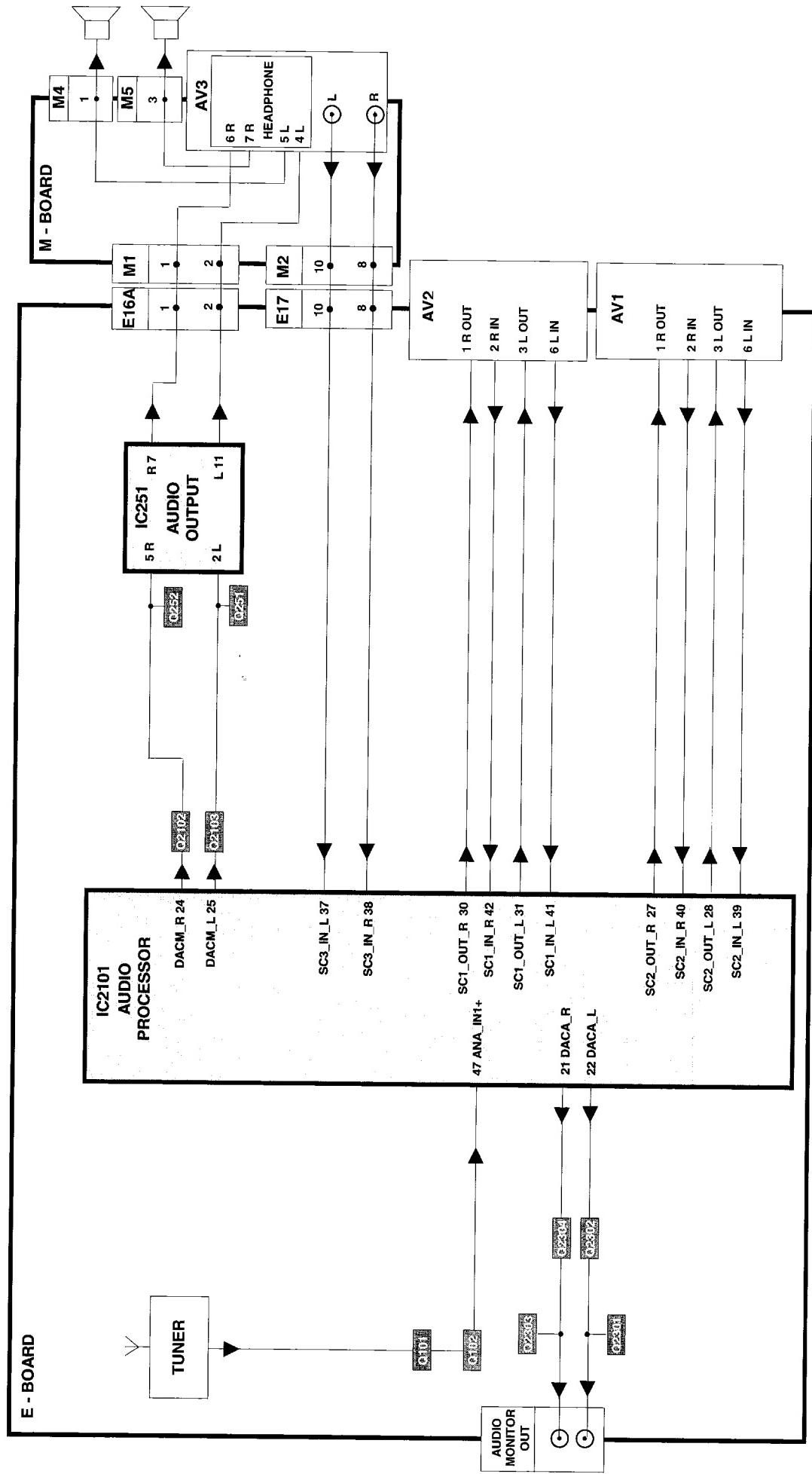
(The figures below are nominal and used for representative purposes only.)

Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V-Amp 054	Optimum setting.
EW-amplitude	E/W-Amp1 -128	Optimum setting.
EW-amplitude	E/W-Amp2 006	Optimum setting.
Trapezium-comp	Trapez-1 047	Optimum setting.
Trapezium-comp	Trapez-2 -128	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
DVCO	DVCO -005	Receive a PAL Colour Bar Pattern. For DVCO alignment press "Blue" button, wait until the colours are changing slowly and press "STR".
Cut-off DC	Cut-off 0171	To adjust Cutoff connect an oscilloscope to the blue cathode. Press "STR" and adjust "cutoff" value using the "Yellow" and "Blue" buttons until the black level is $160V \pm 5V$ press "STR" to store the value. Remove the oscilloscope.
Ug2 Test	Ug2 055 O.K.	Select Ug2 adjustment and adjust the screen VR until the display shows "O.K." 
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 255	Optimum setting.

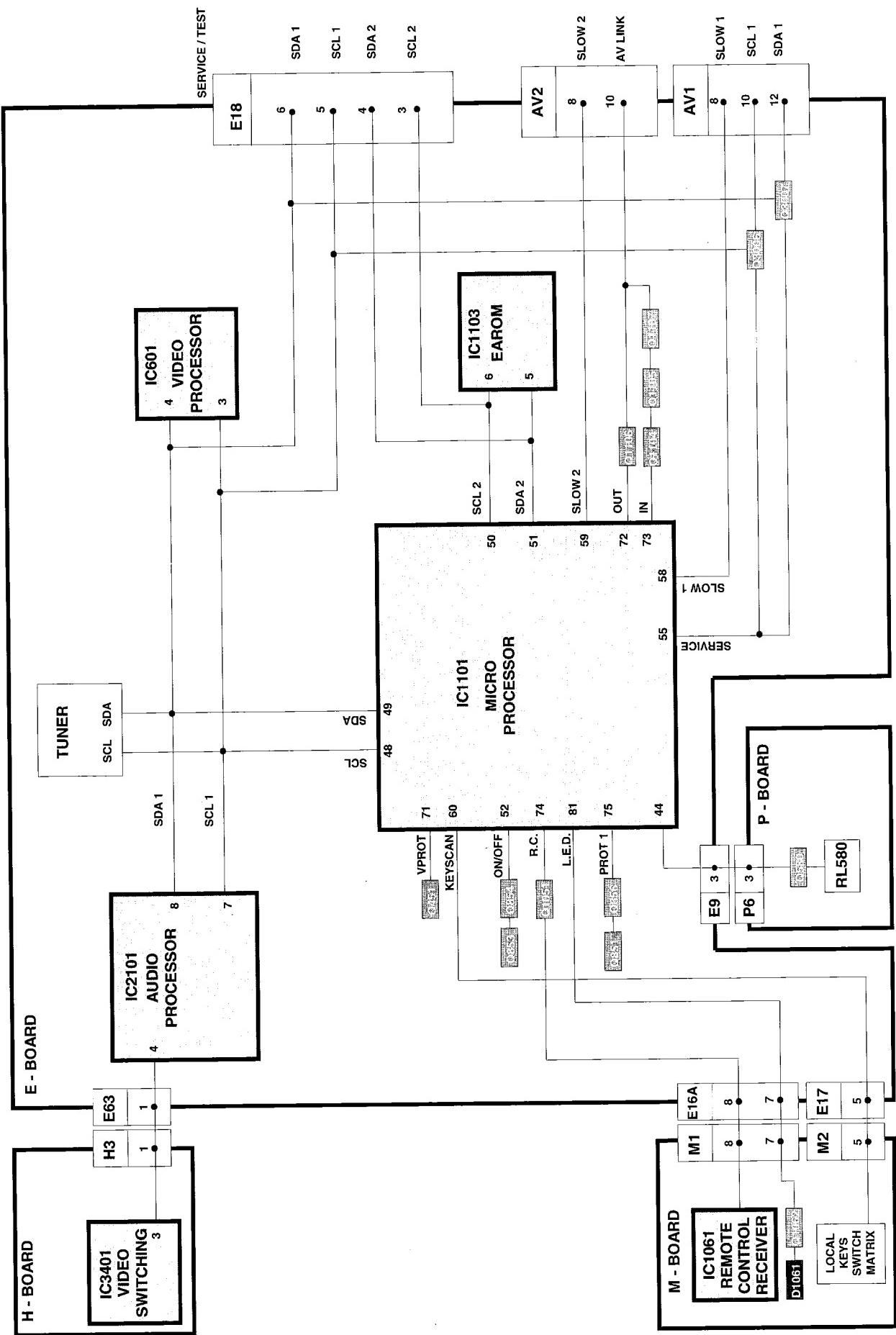
VIDEO BLOCK DIAGRAM



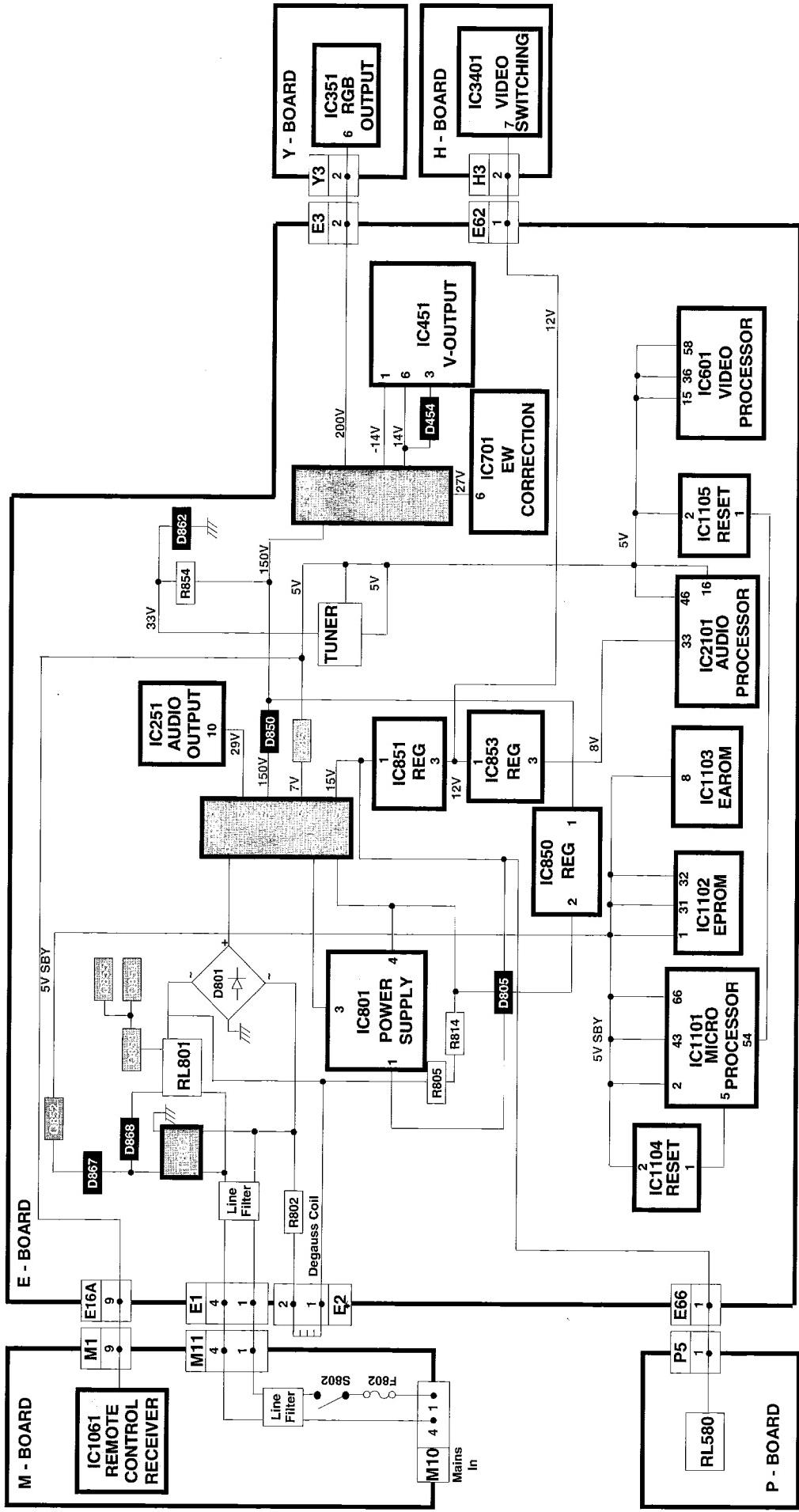
AUDIO BLOCK DIAGRAM



CONTROL BLOCK DIAGRAM



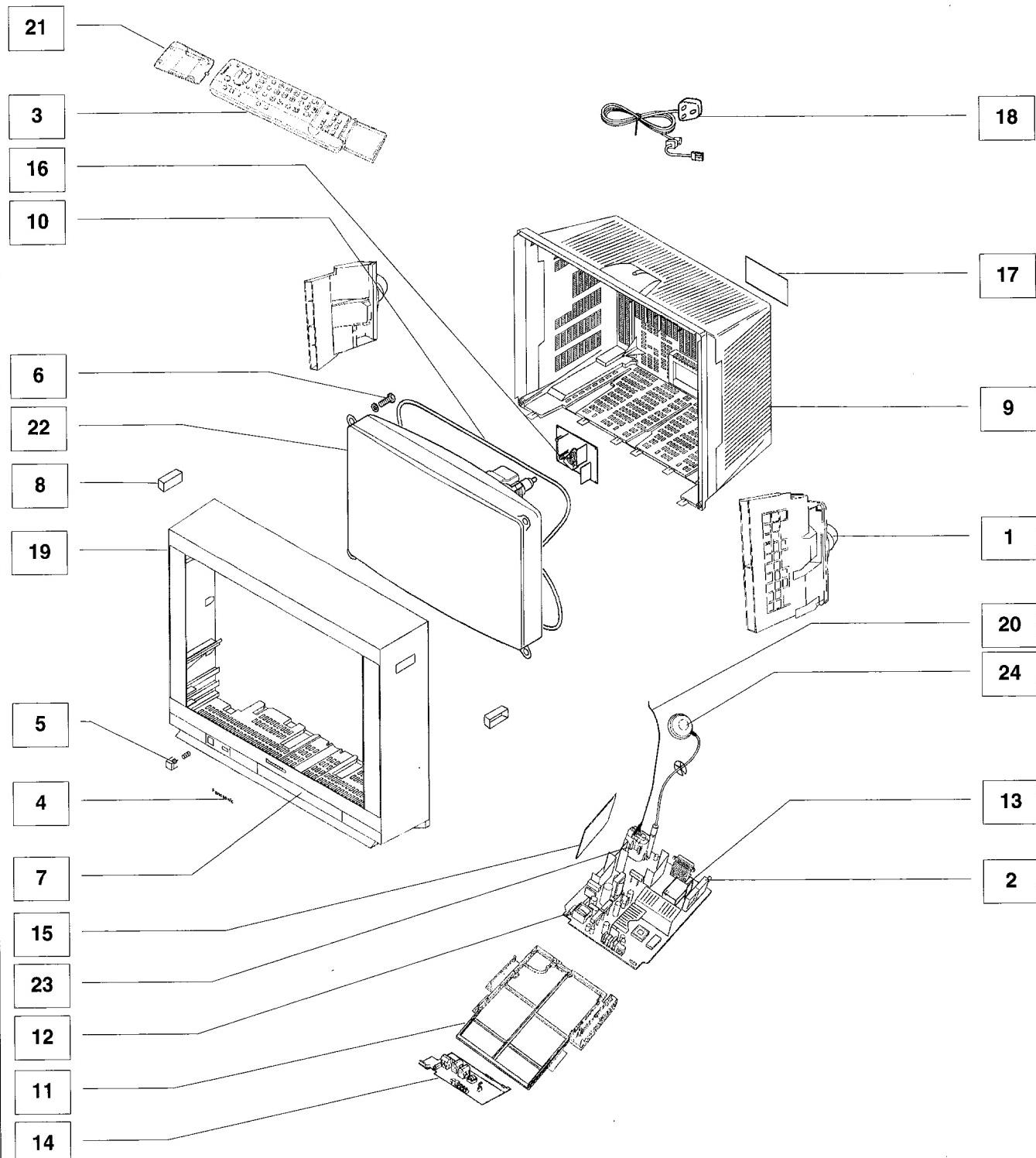
POWER SUPPLY BLOCK DIAGRAM



PARTS LOCATION

NOTE:

The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by  mark have special characteristics important for safety.
 * When replacing any of these components, use only manufacturers specified parts.
 In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description
MECHANICAL PARTS		
1	EAB12136D2	SPEAKER
2	ENG27506GR	TUNER
3	EUR511210	REMOTE CONTROL
4	TBM8E1928	PANASONIC BADGE
5	TBXA05601	POWER BUTTON
6	THT1065R	CRT FIXING SCREW
7	TKPA10702	LID DOOR
8	TKRA06802	HANDLES
9	TKU8E00590	BACK COVER
10	TLK8E05159	DEGAUSS COIL
11	TMX8E044	CHASSIS FRAME
12	TNP8EE009EQ	E P.C.B.
13	TNP8EH002AB	H P.C.B.
14	TNP8EM023AA	M P.C.B.
15	TNP8EP018AD	P P.C.B.
16	TNP8EY013AB	Y P.C.B.
17	TQF8E3122	MODEL LABEL
18	TSX8E0025	POWER CORD
19	TTYA0410	CABINET
20	TXFLK01CDKG	FOCUS LEAD ASSY
21	UR51EC904A	BATTERY COVER (REMOTE)
22	W56ESF002X03	C.R.T.
23	ZTFL94002A	F.B.T.
24	ZTUZAE550A	ANODE LEAD
MISCELLANEOUS COMPONENTS		
.	0330550049	CRT SOCKET
.	31221212478	FIX CLIP
.	832AG11D-ESL	IC SOCKET
.	PCSZT-084A-1	IC SOCKET
.	TBM8E2020	PRESET LABEL
.	TEK6940	LID CATCH
.	TKPA10501	LED PANEL
.	TMX8E041	PCB BRACKET
.	TPC8E4835	OUTER CARTON
.	TPD8E730	TOP CUSHION
.	TPD8E731	BOTTOM CUSHION
.	TS2800	TV STAND
.	UM-3DJ-2P	BATTERY PACK
R802	232266296706	THERMISTOR
INSTRUCTION BOOKS		
.	TQB8E2946-1	ENGLISH
I.C.s		
IC251	LA4282	AUDIO OUTPUT
IC351	TDA6103Q-N3	R.G.B. OUTPUT
IC451	LAT845N	VERTICAL OUTPUT
IC601	VDP3120BPPC2	VIDEO PROCESSOR
IC701	TEA2031A	E/W CORRECTION
IC801	STRF6654LF57	POWER SUPPLY
IC850	SE140N	ERROR AMPLIFIER
IC851	AN78M12-LB	12V REGULATOR

Cct Ref	Parts Number	Description
IC853	AN78L08TA	8V REGULATOR
IC1061	PNA4601M04TV	LED RECEIVER
IC1101	SDA5450C59	MICRO PROCESSOR
IC1102	27C2001-L14	EPROM *
IC1103	XGL2-02VA	EAROM *
IC1104	MN1381-R(TA)	RESET
IC1105	MN1381-T(TA)	RESET
IC2101	MSP3410DPOC5	AUDIO PROCESSOR
IC3401	TEA2114	VIDEO SWITCHING
FUSES		
F802	19181-3.15	FUSE
F802-1	EYF52BC	FUSE HOLDER
F802-2	EYF52BC	FUSE HOLDER
DIODES		
D101	MA3020TX	DIODE
D102	MA3020TX	DIODE
D251	MA2180BLFS	DIODE
D253	MA700TA5	DIODE
D254	MA700TA5	DIODE
D354	1SR124-4AT82	DIODE
D355	1SR124-4AT82	DIODE
D356	1SR124-4AT82	DIODE
D357	MA165TA5	DIODE
D358	MA165TA5	DIODE
D359	MA165TA5	DIODE
D360	MTZJT-7715A	DIODE
D361	MA165TA5	DIODE
D362	MA165TA5	DIODE
D363	MA165TA5	DIODE
D364	MA165TA5	DIODE
D453	MA165TA5	DIODE
D454	ERA15-02V3	DIODE
D456	MTZJT-775.6C	DIODE
D457	MA165TA5	DIODE
D501	MA165TA5	DIODE
D502	1SR124-4AT82	DIODE
D511	MA4047	DIODE
D552	RU3LFA1	DIODE
D553	1SR124-4AT82	DIODE
D554	1SR124-4AT82	DIODE
D556	MA165TA5	DIODE
D557	EU02	DIODE
D558	1SR124-4AT82	DIODE
D580	ERD07-15L7	DIODE
D581	MA165TA5	DIODE
D601	DAN217T146	DIODE
D603	DAN217T146	DIODE
D605	DAN212KT146	DIODE
D606	MA165TA5	DIODE
D607	MA4051	DIODE
D609	1SR124-4AT82	DIODE
D615	STZ6.2NT146	DIODE

Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description
D616	STZ6.2NT146	DIODE	Q305	BC847B	TRANSISTOR
D618	MTZJT-7710D	DIODE	Q306	FMY4T148	TRANSISTOR
D701	MA165TA5	DIODE	Q351	2SA1767	TRANSISTOR
D702	MTZJT-775.1C	DIODE	Q352	2SA1767	TRANSISTOR
D704	MA29TA5	DIODE	Q353	2SA1767	TRANSISTOR
D705	MTZJT-775.6C	DIODE	Q354	BC857B	TRANSISTOR
D706	1SS355TE-17	DIODE	Q451	BC857B	TRANSISTOR
D801	RBV4-08	DIODE	Q503	2SD2398-M2	TRANSISTOR
D803	1SR124-4AT82	DIODE	Q551	BU4508AXLB	TRANSISTOR
D804	1SR124-4AT82	DIODE	Q552	2SC1473ATA	TRANSISTOR
D805	TLP621GR-LF2	PHOTO COUPLER	Q580	BC547B/126	TRANSISTOR
D806	1SR124-4AT82	DIODE	Q701	BC857B	TRANSISTOR
D807	1SS376TE-17	DIODE	Q850	2SD2396K-M3	TRANSISTOR
D850	RU4BLF-L1	DIODE	Q851	BC857B	TRANSISTOR
D851	MTZJT776.2B	DIODE	Q852	2SD1858TV2	TRANSISTOR
D852	MA165TA5	DIODE	Q853	BC847B	TRANSISTOR
D853	MA2180BLFS	DIODE	Q854	BC847B	TRANSISTOR
D854	TVSRU2AMLFA5	DIODE	Q855	BC847B	TRANSISTOR
D855	FML22SLF610	DIODE	Q856	BC847B	TRANSISTOR
D856	RU4AMLF-M1	DIODE	Q857	2SA1018QTA	TRANSISTOR
D857	MTZJT-775.1B	DIODE	Q950	BC847B	TRANSISTOR
D858	MA165TA5	DIODE	Q951	FMY4T148	TRANSISTOR
D859	MA165TA5	DIODE	Q1051	BC847B	TRANSISTOR
D860	MA165TA5	DIODE	Q1062	BC847B	TRANSISTOR
D861	MA165TA5	DIODE	Q1101	BC847B	TRANSISTOR
D862	MTZJT-7736A	DIODE	Q1104	BC847B	TRANSISTOR
D863	MA165TA5	DIODE	Q1105	BC847B	TRANSISTOR
D864	MA165TA5	DIODE	Q1106	BC847B	TRANSISTOR
D865	MA165TA5	DIODE	Q1107	BC847B	TRANSISTOR
D866	MA165TA5	DIODE	Q1108	BC847B	TRANSISTOR
D867	EK06-V0	DIODE	Q2101	BC857B	TRANSISTOR
D868	1N4150T-77	DIODE	Q2102	BC857B	TRANSISTOR
D869	1N4150T-77	DIODE	Q2103	BC857B	TRANSISTOR
D870	MA165TA5	DIODE	Q2301	BC847B	TRANSISTOR
D871	1N4150T-77	DIODE	Q2302	BC857B	TRANSISTOR
D873	MTZJT-775.6C	DIODE	Q2303	BC847B	TRANSISTOR
D874	1SR124-4AT82	DIODE	Q2304	BC857B	TRANSISTOR
D875	BZX79A75A26A	DIODE	Q3001	BC847B	TRANSISTOR
D1061	LN81RPHCF3	LED	Q3006	BC847B	TRANSISTOR
D1101	MA165TA5	DIODE	Q3007	BC847B	TRANSISTOR
D1102	MA165TA5	DIODE	Q3201	BC847B	TRANSISTOR
D1104	MA165TA5	DIODE	Q3202	BC847B	TRANSISTOR
D1105	MA165TA5	DIODE	Q3203	BC857B	TRANSISTOR
D2101	MA723TA5	DIODE	Q3204	BC857B	TRANSISTOR
D2102	MA723TA5	DIODE	Q3205	BC847B	TRANSISTOR
D2103	MA723TA5	DIODE	Q3206	BC847B	TRANSISTOR
D2104	MA723TA5	DIODE	Q3207	BC847B	TRANSISTOR
D2105	MTZJT-778.2C	DIODE	Q3208	BC847B	TRANSISTOR
D2303	MA723TA5	DIODE	Q3209	BC847B	TRANSISTOR
D2304	MA723TA5	DIODE	Q3401	BC847B	TRANSISTOR
D3201	MTZJT-778.2C	DIODE	Q3402	BC847B	TRANSISTOR
D3202	MTZJT-778.2C	DIODE	Q3601	BC847B	TRANSISTOR
TRANSISTORS			TRANSFORMERS		
Q101	BC847B	TRANSISTOR	T501	ETH19Y173AY	TRANSFORMER
Q102	BC847B	TRANSISTOR	T801	ETS39AG1J7AD	TRANSFORMER
Q103	BC847B	TRANSISTOR	T802	ETP35KAN619U	TRANSFORMER
Q104	BC847B	TRANSISTOR	COILS		
Q105	BC847B	TRANSISTOR	J208	EXCELSA35V	COIL
Q251	2SD1328STX	TRANSISTOR	L101	TLT100K991R	COIL
Q252	2SD1328STX	TRANSISTOR	L102	TLT068K991R	COIL
Q253	BC847B	TRANSISTOR	L104	EXCELSA35T	COIL
Q254	BC847B	TRANSISTOR	L105	TLTACTR47K	COIL
Q301	BC847B	TRANSISTOR	L106	TLTACT100K	COIL
Q302	FMY4T148	TRANSISTOR	L107	TLTACT6R8K	COIL
Q303	BC847B	TRANSISTOR	L114	ELJFC2R2KF	COIL
Q304	FMY4T148	TRANSISTOR	L115	ELJFC2R2KF	COIL

Cct Ref	Parts Number	Description
L301	TLTACT4R7K	COIL
L302	TLTACT4R7K	COIL
L451	EXCELSA35T	COIL
L501	EXCELSA35T	COIL
L580	ELC08D682E	COIL
L581	ELH5L6118	COIL
L582	ELC18B821E	COIL
L583	ELC18B101L	COIL
L584	ELH5L6122	COIL
L585	ELC18B151L	COIL
L601	TLTACT4R7K	COIL
L602	TLTACT4R7K	COIL
L603	TLTACT4R7K	COIL
L604	TLTACT4R7K	COIL
L606	TLTACT4R7K	COIL
L607	ELJFC2R2KF	COIL
L701	ELC10D682E	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	ELEIE470KA	COIL
L855	EXCELSA35T	COIL
L856	EXCELSA39V	COIL
L1061	TLT331K991R	COIL
L1103	TLTACT100K	COIL
L1104	EXCELSA35T	COIL
L1105	ELJFC2R2KF	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L3001	ELEMV1R5MA	COIL
L3002	ELEMV1R5MA	COIL
L3003	ELEMV1R5MA	COIL
L3004	ELEMV1R5MA	COIL
L3005	ELEBR2R2KA	COIL
L3006	ELEBR2R2KA	COIL
L3007	TLTACT2R2K	COIL
L3201	ELEBR6R8KA	COIL
L3202	ELEBR6R8KA	COIL
L3203	TLT390K991R	COIL
L3204	TLT331K991R	COIL
L3401	ELESN2R2KA	COIL
L3402	ELESN2R2KA	COIL
FILTERS		
L804	ELF19N008A	LINE FILTER
X102	EFCT7004BF	CERAMIC FILTER
CRYSTALS		
X601	4730007267	CRYSTAL
X1101	TSSA121	CRYSTAL
X2101	4730007158	CRYSTAL
RESISTORS		
JA1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA2	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA4	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA5	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA8	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA11	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA14	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA15	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA16	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω

Cct Ref	Parts Number	Description
JA17	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA18	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA21	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA23	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA25	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA27	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA28	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA29	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA30	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA31	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA32	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA33	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA34	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA35	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA36	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA37	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA38	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA39	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA40	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA43	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA44	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA45	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA46	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA47	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA48	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA49	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA50	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA51	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA52	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA53	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA54	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA55	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA56	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA57	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA58	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA59	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA60	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA61	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JSE3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE4	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE22	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE26	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE33	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE35	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE42	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE48	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSE49	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JSM7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JSM8	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R101	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
R102	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R103	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2 Ω
R104	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3 Ω
R105	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100 Ω
R106	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680 Ω
R107	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1K Ω
R108	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R109	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10K Ω
R110	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470 Ω
R111	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω

Cct Ref	Parts Number	Description					Cct Ref	Parts Number	Description				
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω	R380	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R113	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω	R381	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R114	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω	R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R115	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω	R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6	Ω	R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω	R454	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2	Ω
R118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω	R455	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω	R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R251	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33	Ω	R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R252	ERJ6GEYJ751	S.M.CARB	0.1W	5%	750	Ω	R458	ERD25TJ1R5	CARBON	0.25W	5%	1R5	Ω
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω	R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R254	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33	Ω	R460	ERDS1TJ221	CARBON	0.5W	5%	220	Ω
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω	R461	ERW2PK1R2	WOUND	2W	10%	1R2	Ω △
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω	R463	ERD25TJ102	CARBON	0.25W	5%	1K	Ω
R257	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47	Ω	R464	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8	Ω
R258	ERJ6GEYJ751	S.M.CARB	0.1W	5%	750	Ω	R465	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω
R259	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47	Ω	R502	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510	Ω
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω	R506	ERD25TJ560	CARBON	0.25W	5%	56	Ω
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω	R507	ERG1SJ221P	METAL	1W	5%	220	Ω △
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω	R509	ERDS1TJ152	CARBON	0.5W	5%	1K5	Ω
R263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω	R510	ERDS1FJ152	CARBON	0.5W	5%	1K5	Ω △
R264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω	R555	ERQ12HKR33	METAL	0.5W	5%	R33	Ω △
R265	ERD25TJ2R2	CARBON	0.25W	5%	2R2	Ω	R558	ERDS1TJ124	CARBON	0.5W	5%	120K	Ω
R266	ERD25TJ2R2	CARBON	0.25W	5%	2R2	Ω	R559	ERQ12HKR33	METAL	0.5W	5%	R33	Ω △
R267	ERF7ZK4R7	WOUND	7W	10%	4R7	Ω △	R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K	Ω
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω	R561	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K	Ω
R269	ERQ14AJ101	METAL	0.25W	5%	100	Ω △	R563	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K	Ω
R271	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω	R564	ERJ6GEYJ623	S.M.CARB	0.1W	5%	62K	Ω
R272	ERF7ZK4R7	WOUND	7W	10%	4R7	Ω △	R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K	Ω
R301	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	Ω	R567	ERF7ZK4R7	WOUND	7W	10%	4R7	Ω △
R302	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω	R580	ERG1SJ101	METAL	1W	5%	100	Ω
R303	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω	R581	ERG1SJ152	METAL	1W	5%	1K5	Ω
R304	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω	R582	ERG3FJ102H	METAL	3W	5%	1K	Ω △
R305	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	Ω	R583	ERG1SJ152	METAL	1W	5%	1K5	Ω
R306	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω	R585	ERG3FJ102H	METAL	3W	5%	1K	Ω △
R307	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω	R586	ERD25TJ682	CARBON	0.25W	5%	6K8	Ω
R308	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω	R587	ERDS2TJ472T	CARBON	0.25W	5%	4K7	Ω
R309	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	Ω	R588	ERDS2TJ222T	CARBON	0.5W	5%	2K2	Ω
R310	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω	R589	ERDS1TJ680	CARBON	0.5W	5%	68	Ω
R311	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω	R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R312	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω	R602	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820	Ω
R351	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K	Ω	R603	ERJ8GEYJ103	S.M.CARB	.125W	5%	10K	Ω
R352	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K	Ω	R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R353	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K	Ω	R605	ERD25TJ331	CARBON	0.25W	5%	330	Ω
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω	R606	ERD25TJ331	CARBON	0.25W	5%	330	Ω
R355	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω	R607	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820	Ω
R356	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω	R608	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270	Ω
R357	ERG12DJ104V	METAL	0.5W	5%	100K	Ω	R609	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2	Ω
R358	ERG12DJ104V	METAL	0.5W	5%	100K	Ω	R610	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R359	ERG12DJ104V	METAL	0.5W	5%	100K	Ω	R611	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R363	ERDS1TJ103	CARBON	0.5W	5%	10K	Ω	R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R364	ERDS1TJ103	CARBON	0.5W	5%	10K	Ω	R613	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5	Ω
R365	ERDS1TJ103	CARBON	0.5W	5%	10K	Ω	R615	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R366	ERDS1TJ152	CARBON	0.5W	5%	1K5	Ω	R616	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R367	ERDS1TJ152	CARBON	0.5W	5%	1K5	Ω	R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R368	ERDS1TJ152	CARBON	0.5W	5%	1K5	Ω	R636	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R369	ERD25TJ123	CARBON	0.25W	5%	12K	Ω	R645	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R370	ERD25TJ272F	CARBON	0.25W	5%	2K7	Ω	R647	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R372	ERQ12AJ121	FUSIBLE	0.5W	5%	120	Ω △	R648	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5	Ω
R373	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22	Ω	R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R374	ERD25TJ274	CARBON	0.25W	5%	270K	Ω	R651	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R375	ERJ6GEYJ684	S.M.CARB	0.1W	5%	680K	Ω	R652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R376	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	Ω	R654	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2	Ω
R377	ERQ1ABJP5R6S	METAL	0.5W	5%	5R6	Ω △	R655	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R378	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω	R658	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω	R659	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω

Cct Ref	Parts Number	Description			
R660	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R701	ERQ12AJ101	FUSIBLE	0.5W	5%	100 Ω ▲
R702	ERQ12HJ8R2	FUSIBLE	0.5W	5%	8R2 Ω ▲
R703	ERG2FJ821	METAL	2W	5%	820 Ω ▲
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R705	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R711	ERG1SJ101	METAL	1W	5%	100 Ω
R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R803	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω
R805	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R806	ERD25TJ100	CARBON	0.25W	5%	10 Ω
R807	ERD25TJ332	CARBON	0.25W	5%	3K3 Ω
R809	ERD25TJ681	CARBON	0.25W	5%	680 Ω
R810	ERW2PKR27	WOUND	2W	10%	R27 Ω ▲
R811	ERW2PKR33	WOUND	2W	20%	R33 Ω ▲
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω ▲
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω ▲
R814	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R815	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω
R850	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R854	ERG2FJ223	METAL	2W	5%	22K Ω ▲
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R856	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω
R860	ERQ1CJP2R2	FUSIBLE	1W	10%	2R2 Ω ▲
R861	ERDS2TJ221T	CARBON	0.5W	5%	220 Ω
R862	ERD25TJ272F	CARBON	0.25W	5%	2K7 Ω
R863	ERDS1TJ560	CARBON	0.5W	5%	56 Ω
R864	ERDS1TJ151	CARBON	0.5W	5%	150 Ω
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R868	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R872	ERG1SJ183	METAL	1W	5%	18K Ω
R873	ERG1SJ223	METAL	1W	5%	22K Ω
R874	ERJ6GEYJ204	S.M.CARB	0.1W	5%	200K Ω
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R877	ERW2PKR56	WOUND	2W	10%	R56 Ω ▲
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R951	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R952	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R953	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R954	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1062	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1063	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω

Cct Ref	Parts Number	Description			
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1111	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1133	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R1136	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1138	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1142	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1149	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1154	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1155	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1158	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1160	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1163	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1164	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1165	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1166	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1172	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R1178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1180	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1190	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1251	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1252	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1253	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R1254	ERJ6GEYJ512	S.M.CARB	0.1W	5%	5K1 Ω
R1255	ERJ6GEYJ912	S.M.CARB	0.1W	5%	9K1 Ω
R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω

Cct Ref	Parts Number	Description			
R2102	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R2103	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R2109	ERJ6GEYJ183	S.M.CARB	0.1W 5%	18K Ω	
R2110	ERJ6GEY0R00	S.M.CARB	0.1W 5%	0 Ω	
R2111	ERJ6GEYJ221	S.M.CARB	0.1W 5%	220 Ω	
R2112	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R2113	ERJ6GEYJ562	S.M.CARB	0.1W 5%	5K6 Ω	
R2114	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R2115	ERJ6GEYJ222	S.M.CARB	0.1W 5%	2K2 Ω	
R2116	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R2117	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R2118	ERJ6GEYJ222	S.M.CARB	0.1W 5%	2K2 Ω	
R2119	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R2120	ERJ6GEYJ222	S.M.CARB	0.1W 5%	2K2 Ω	
R2302	ERJ6GEYJ104	S.M.CARB	0.1W 5%	100K Ω	
R2303	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R2304	ERJ6GEYJ471	S.M.CARB	0.1W 5%	470 Ω	
R2305	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R2306	ERJ6GEYJ103	S.M.CARB	0.1W 5%	10K Ω	
R2308	ERJ6GEYJ104	S.M.CARB	0.1W 5%	100K Ω	
R2309	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R2310	ERJ6GEYJ471	S.M.CARB	0.1W 5%	470 Ω	
R2311	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R2312	ERJ6GEYJ103	S.M.CARB	0.1W 5%	10K Ω	
R3001	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3002	ERJ6GEYJ471	S.M.CARB	0.1W 5%	470 Ω	
R3003	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3004	ERJ6GEYJ153	S.M.CARB	0.1W 5%	15K Ω	
R3005	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3006	ERJ6GEYJ471	S.M.CARB	0.1W 5%	470 Ω	
R3007	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3008	ERJ6GEYJ153	S.M.CARB	0.1W 5%	15K Ω	
R3009	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3010	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3011	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3012	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3013	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3014	ERJ6GEYJ471	S.M.CARB	0.1W 5%	470 Ω	
R3015	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3016	ERJ6GEYJ153	S.M.CARB	0.1W 5%	15K Ω	
R3017	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3018	ERJ6GEYJ471	S.M.CARB	0.1W 5%	470 Ω	
R3019	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3020	ERJ6GEYJ153	S.M.CARB	0.1W 5%	15K Ω	
R3021	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3022	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R3023	ERJ6GEYJ123	S.M.CARB	0.1W 5%	12K Ω	
R3024	ERJ6GEYJ472	S.M.CARB	0.1W 5%	4K7 Ω	
R3025	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3026	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3044	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3046	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3047	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3048	ERJ6GEYJ103	S.M.CARB	0.1W 5%	10K Ω	
R3049	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3050	ERJ6GEYJ103	S.M.CARB	0.1W 5%	10K Ω	
R3057	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3202	ERDS1TJ151	CARBON	0.5W 5%	150 Ω	
R3203	ERDS1TJ151	CARBON	0.5W 5%	150 Ω	
R3204	ERG2FJ221	METAL	2W 5%	220 Ω ▲	
R3205	ERG2FJ221	METAL	2W 5%	220 Ω ▲	
R3207	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3208	ERJ6GEYJ153	S.M.CARB	0.1W 5%	15K Ω	
R3209	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3210	ERJ6GEYJ153	S.M.CARB	0.1W 5%	15K Ω	
R3213	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	

Cct Ref	Parts Number	Description			
R3214	ERJ6GEYJ683	S.M.CARB	0.1W 5%	68K Ω	
R3215	ERJ6GEYJ302	S.M.CARB	0.1W 5%	3K Ω	
R3216	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3219	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R3220	ERJ6GEYJ683	S.M.CARB	0.1W 5%	68K Ω	
R3221	ERJ6GEYJ302	S.M.CARB	0.1W 5%	3K Ω	
R3224	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R3225	ERJ6GEYJ683	S.M.CARB	0.1W 5%	68K Ω	
R3226	ERJ6GEYJ302	S.M.CARB	0.1W 5%	3K Ω	
R3227	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R3228	ERJ6GEYJ273	S.M.CARB	0.1W 5%	27K Ω	
R3229	ERJ6GEYJ103	S.M.CARB	0.1W 5%	10K Ω	
R3230	ERJ6GEYJ302	S.M.CARB	0.1W 5%	3K Ω	
R3231	ERJ6GEYJ122	S.M.CARB	0.1W 5%	1K2 Ω	
R3232	ERJ6GEYJ242	S.M.CARB	0.1W 5%	2K4 Ω	
R3233	ERJ6GEYJ391	S.M.CARB	0.1W 5%	390 Ω	
R3234	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R3402	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3403	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3404	ERJ6GEYJ242	S.M.CARB	0.1W 5%	2K4 Ω	
R3405	ERJ6GEYJ104	S.M.CARB	0.1W 5%	100K Ω	
R3406	ERJ6GEYJ301	S.M.CARB	0.1W 5%	300 Ω	
R3407	ERJ6GEYJ123	S.M.CARB	0.1W 5%	12K Ω	
R3408	ERJ6GEYJ472	S.M.CARB	0.1W 5%	4K7 Ω	
R3409	ERJ6GEYJ750	S.M.CARB	0.1W 5%	75 Ω	
R3601	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3602	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3603	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3604	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3605	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3606	ERJ6GEYJ101	S.M.CARB	0.1W 5%	100 Ω	
R3607	ERJ6GEYJ472	S.M.CARB	0.1W 5%	4K7 Ω	
R3608	ERJ6GEYJ752	S.M.CARB	0.1W 5%	7K5 Ω	
R3609	ERJ6GEY0R00	S.M.CARB	0.1W 5%	0 Ω	
R3610	ERJ6GEYJ102	S.M.CARB	0.1W 5%	1K Ω	
R3613	ERJ6GEYJ391	S.M.CARB	0.1W 5%	390 Ω	
R3614	ERJ6GEYJ391	S.M.CARB	0.1W 5%	390 Ω	
CAPACITORS					
C101	ECJ2VB1C104K	ELECT	350V	100nF	
C102	ECJ2VF1H103Z	ELECT	350V	10nF	
C103	ECJ2VF1H104Z	ELECT	350V	100nF	
C105	ECUV1H560JCX	S.M. CAP	50V	56pF	
C106	ECUV1H560JCX	S.M. CAP	50V	56pF	
C107	ECJ2VF1H104Z	ELECT	350V	100nF	
C108	ECEA1CU100	ELECT	16V	10μF	
C109	ECUV1H102JCX	S.M. CAP	50V	1nF	
C110	ECJ2VF1H103Z	ELECT	350V	10nF	
C111	ECA1HMR33GB	ELECT	50V	0.33μF	
C114	ECJ2VF1H104Z	ELECT	350V	100nF	
C115	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C116	ECA1CM221GB	ELECT	16V	220μF	
C117	ECJ2VF1H103Z	ELECT	350V	10nF	
C118	ECJ2VF1H104Z	ELECT	350V	100nF	
C119	ECA1CM221GB	ELECT	16V	220μF	
C120	ECA1CM221GB	ELECT	16V	220μF	
C121	ECUV1H561KBX	S.M. CAP	50V	560pF	
C124	ECUV1H220JCX	S.M. CAP	50V	22pF	
C125	ECUV1H100DCX	S.M. CAP	50V	10pF	
C133	ECUV1H104KBX	S.M. CAP	50V	100nF	
C134	ECUV1H104KBX	S.M. CAP	50V	100nF	
C135	ECUV1H104KBW	S.M. CAP	50V	100nF	
C136	ECUV1H104KBW	S.M. CAP	50V	100nF	
C138	ECUV1H104KBX	S.M. CAP	50V	100nF	
C251	ECA1HM330B	ELECT	50V	33μF	
C252	ECJ2VB1H223K	ELECT	350V	22nF	
C253	ECA1HM4R7GB	ELECT	50V	4.7μF	

Cct Ref	Parts Number	Description			Cct Ref	Parts Number	Description			
C254	ECQM1H154J	FILM	50V	150nF	C603	ECUV1H102JCX	S.M. CAP	50V	1nF	
C255	ECA1EM101GB	ELECT	25V	100µF	C604	ECJ2VF1H223Z	ELECT	350V	22nF	
C256	ECJ2VB1H223K	ELECT	350V	22nF	C605	ECA1HM101GB	ELECT	50V	100µF	
C257	ECA1HM4R7GB	ELECT	50V	4.7µF	C606	ECA1HM3R3GB	ELECT	50V	3.3µF	
C258	ECA1HM330B	ELECT	50V	33µF	C607	ECJ2VF1H104Z	ELECT	350V	100nF	
C259	ECQM1H154J	FILM	50V	150nF	C608	ECUV1H153KBX	S.M. CAP	50V	15nF	
C260	ECA1VM102GB	ELECT	35V	1nF	C609	ECUV1H153KBX	S.M. CAP	50V	15nF	
C261	ECA1VM102GB	ELECT	35V	1nF	C610	ECUV1H153KBX	S.M. CAP	50V	15nF	
C262	ECQM1H684J	FILM	50V	680nF	C611	ECUV1H153KBX	S.M. CAP	50V	15nF	
C263	ECA1HM010GB	ELECT	50V	1µF	C612	ECUV1H153KBX	S.M. CAP	50V	15nF	
C264	ECA1HHG222E	ELECT	50V	2200µF	C613	ECUV1H153KBX	S.M. CAP	50V	15nF	
C265	ECQM1H684J	FILM	50V	680nF	C614	ECUV1H050CCX	S.M. CAP	50V	50pF	
C266	ECA1HM010GB	ELECT	50V	1µF	C615	ECUV1H050CCX	S.M. CAP	50V	50pF	
C267	ECJ2VB1H104K	ELECT	350V	100nF	C616	ECA1HM101GB	ELECT	50V	100µF	
C268	ECJ2VB1H104K	ELECT	350V	100nF	C617	ECUV1H223KBX	S.M. CAP	50V	22nF	
C270	ECJ2VB1H104K	ELECT	350V	100nF	C618	ECA1CM221GB	ELECT	16V	220µF	
C301	ECJ2VB1C104K	ELECT	350V	100nF	C619	ECJ2VB1H473K	ELECT	350V	47nF	
C302	ECJ2VB1C104K	ELECT	350V	100nF	C620	ECA1HM101GB	ELECT	50V	100µF	
C303	ECJ2VB1C104K	ELECT	350V	100nF	C621	ECJ2VB1C104K	ELECT	350V	100nF	
C304	ECA1CM100GB	ELECT	16V	10µF	C622	ECUV1H683KBX	S.M. CAP	50V	68nF	
C351	ECUV1H090DCN	S.M. CAP	50V	90pF	C623	ECUV1H102JCX	S.M. CAP	50V	1nF	
C352	ECUV1H090DCN	S.M. CAP	50V	90pF	C624	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C353	ECUV1H090DCN	S.M. CAP	50V	90pF	C625	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C354	ECQM2104KZ	FILM	250V	100nF	C626	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C355	ECUV1H222JCX	S.M. CAP	50V	2.2nF	C627	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C356	ECUV1H222JCX	S.M. CAP	50V	2.2nF	C628	ECA1CM100GB	ELECT	16V	10µF	
C357	ECUV1H222JCX	S.M. CAP	50V	2.2nF	C629	ECUV1H104KBX	S.M. CAP	50V	100nF	
C358	ECQM1H224J	FILM	50V	220nF	C630	ECUV1H100DCX	S.M. CAP	50V	10pF	
C360	ECKC3D152J	CERAMIC	2KV	1.5nF	▲	C631	ECUV1H683ZFX	S.M. CAP	50V	68nF
C361	ECA1HMR47GB	ELECT	50V	0.47µF	C633	ECUV1H271JCX	S.M. CAP	50V	270pF	
C363	ECA1VM471GB	ELECT	35V	470µF	C634	ECUV1H271JCX	S.M. CAP	50V	270pF	
C364	ECJ2VF1H103Z	ELECT	350V	10nF	C635	ECUV1H180JCX	S.M. CAP	50V	18pF	
C365	ECA1CM100GB	ELECT	16V	10µF	C636	ECUV1H271JCX	S.M. CAP	50V	270pF	
C451	ECUV1H102JX	S.M. CAP	50V	1nF	C637	ECUV1H101JCX	S.M. CAP	50V	100pF	
C453	ECUV1H152KBX	S.M. CAP	50V	1.5pF	C638	ECUV1H471JCX	S.M. CAP	50V	470pF	
C454	ECUV1H223KBM	S.M. CAP	50V	22nF	C639	ECUV1H332KBM	S.M. CAP	50V	3.3nF	
C455	ECA1HM100GB	ELECT	50V	10µF	C640	ECKC2H391J	CERAMIC	500V	390pF	
C456	ECA1HHG221B	ELECT	50V	220µF	▲	C701	ECA1HHG101B	ELECT	50V	100µF
C458	ECQB1222JF3	FILM	100V	2.2nF	C702	ECUV1H103KBX	S.M. CAP	50V	10nF	
C459	222236516154	FILM	160V	150nF	C703	ECEA1HGE100	ELECT	50V	10µF	
C461	ECCR2H270J	CERAMIC	500V	27pF	C704	ECQB1H223K	FILM	50V	22nF	
C508	ECQV1H105JZ	FILM	50V	1µF	C705	ECQB1H222J	FILM	50V	2.2nF	
C509	ECA1VM470B	ELECT	35V	47µF	C804	222233510224	FILM	250V	220nF	
C510	ECUV1H104KBX	S.M. CAP	50V	100nF	C805	ECA0JHG102B	ELECT	6.3V	1nF	
C551	ECKC3D222JB	CERAMIC	2KV	2200pF	▲	C806	ECKWNA101MBC	CERAMIC	400V	100µF
C552	ECWH15H102JN	FILM	1500V	1nF	C807	ECKC2H472J	CERAMIC	500V	4.7nF	
C556	ECQM4333JC	FILM	400V	33nF	C808	ECKC2H472J	CERAMIC	500V	4.7nF	
C557	ECKC2H471J	CERAMIC	500V	470pF	▲	C809	ECKC2H472J	CERAMIC	500V	4.7nF
C558	ECA1HHG471E	ELECT	50V	470µF	C810	ECKC2H472J	CERAMIC	500V	4.7nF	
C561	ECA1EHG102B	ELECT	25V	1000µF	C811	43504A9187M0	ELECT	400V	180µF	
C562	ECKC2H101J	CERAMIC	500V	100pF	▲	C814	ECKC3D102J	CERAMIC	2KV	1nF
C563	ECA2EHG220B	ELECT	250V	20µF	C815	ECKC1H471J	CERAMIC	50V	470pF	
C564	ECEA2AN2R2SB	ELECT	100V	2.2µF	C816	EEUFC1E820B	CERAMIC	25V	82pF	
C565	ECQP1H273J	FILM	100V	2700µF	C817	ECQE6104K	FILM	600V	100nF	
C566	ECKC2H471J	CERAMIC	500V	470pF	▲	C818	ECKWNA332MEC	CERAMIC	250V	3.3nF
C567	ECA1EHG102B	ELECT	25V	1000µF	C819	ECQB1H152K	FILM	50V	1.5nF	
C568	ECKC2H471J	CERAMIC	500V	470pF	▲	C850	ECKC3D471JB	CERAMIC	2KV	470pF
C569	ECKC2H102J	CERAMIC	500V	1nF	▲	C851	ECA2CM221E	ELECT	160V	220µF
C580	ECA2GHG2R2B	ELECT	400V	1nF	C852	ECA2CHG101E	ELECT	160V	100µF	
C581	ECWF4824JBB	FILM	400V	820nF	C853	ECKC2H471J	CERAMIC	500V	470pF	
C582	ECWF2H474J	FILM	500V	470nF	▲	C854	ECA1EM102GB	ELECT	25V	100µF
C584	ECWH15H103JN	FILM	1500V	10nF	C855	ECKC2H471J	CERAMIC	500V	470pF	
C585	ECQB1H103J	FILM	50V	10nF	C856	ECA1AHG222B	ELECT	10V	2200µF	
C586	ECWF2H224J	FILM	500V	220nF	▲	C857	ECKC2H471J	CERAMIC	500V	470pF
C601	ECUV1H104KBX	S.M. CAP	50V	100nF	C858	ECEA1HGE102	ELECT	50V	1000µF	
C602	ECA1HM101GB	ELECT	50V	100µF	C859	ECJ2VF1H104Z	ELECT	350V	100nF	

Cct Ref	Parts Number	Description			
C860	ECA1HM101GB	ELECT	50V	100µF	
C862	ECJ2VF1H104Z	ELECT	350V	100nF	
C863	ECA1HM101GB	ELECT	50V	100µF	
C864	ECJ2VF1H104Z	ELECT	350V	100nF	
C865	ECA1CM100GB	ELECT	16V	10µF	
C866	ECJ2VF1H104Z	ELECT	350V	100nF	
C867	ECA1CM100GB	ELECT	16V	10µF	
C868	ECA1CM100GB	ELECT	16V	10µF	
C869	ECA1EM101GB	ELECT	25V	100µF	
C870	ECA1EM471GB	ELECT	25V	470µF	
C871	ECA1CM102B	ELECT	16V	1000µF	
C872	ECA1CM471GB	ELECT	16V	470µF	
C873	ECA1CM100GB	ELECT	16V	10µF	
C875	ECA2CM220B	ELECT	160V	22µF	
C876	ECA1HHG101B	ELECT	50V	100µF	
C950	ECJ2VB1C104K	ELECT	350V	100nF	
C1061	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1062	ECEA1HU101	ELECT	50V	100µF	
C1063	ECUV1H331JCX	S.M. CAP	50V	330pF	
C1101	ECJ2VF1H104Z	ELECT	350V	100nF	
C1102	ECA0JM101G	ELECT	6.3V	100µF	
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1106	ECKC2H681J	CERAMIC	500V	680pF	▲
C1108	ECJ2VB1H333K	ELECT	350V	33nF	
C1111	ECA1CM100GB	ELECT	16V	10µF	
C1112	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1115	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C1116	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C1117	ECJ2VF1H104Z	ELECT	350V	100nF	
C1118	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1120	ECJ2VF1H104Z	ELECT	350V	100nF	
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1123	ECUV1H471JCX	S.M. CAP	50V	470pF	
C1124	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1125	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1126	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1127	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1130	ECA1CM221GB	ELECT	16V	220µF	
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2111	ECA1CM100GB	ELECT	16V	10µF	
C2112	ECA1CM100GB	ELECT	16V	10µF	
C2113	ECA1HM3R3GB	ELECT	50V	3.3µF	
C2114	ECJ2VF1H104Z	ELECT	350V	100nF	
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2121	ECA1CM100GB	ELECT	16V	10µF	
C2122	ECJ2VF1H104Z	ELECT	350V	100nF	
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2124	ECUV1H560JCX	S.M. CAP	50V	56pF	

Cct Ref	Parts Number	Description			
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF	
C2126	ECUV1H560JCX	S.M. CAP	50V	56pF	
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF	
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF	
C2129	ECA1CM102B	ELECT	16V	1000µF	
C2130	ECA1CM331B	ELECT	16V	330µF	
C2131	ECJ2VF1H103Z	ELECT	350V	10nF	
C2132	ECJ2VF1H103Z	ELECT	350V	10nF	
C2134	ECJ2VF1H103Z	ELECT	350V	10nF	
C2135	ECA1HM101GB	ELECT	50V	100µF	
C2136	ECJ2VF1H104Z	ELECT	350V	100nF	
C2137	ECA1CM100GB	ELECT	16V	10µF	
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF	
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2140	ECA1HM101GB	ELECT	50V	100µF	
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF	
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C2302	ECA1CM470GB	ELECT	16V	47µF	
C2303	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C2304	ECA1CM470GB	ELECT	16V	47µF	
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3003	ECA1CM470GB	ELECT	16V	47µF	
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3006	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3010	ECA1CM470GB	ELECT	16V	47µF	
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3017	ECA1CM470GB	ELECT	16V	47µF	
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3024	ECA1CM470GB	ELECT	16V	47µF	
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3029	ECA1HM101GB	ELECT	50V	100µF	
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3033	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3034	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3035	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3101	ECUV1H104KBX	S.M. CAP	50V	100nF	
C3102	ECUV1E104KBX	S.M. CAP	25V	100nF	
C3111	ECUV1H391JCX	S.M. CAP	50V	390pF	
C3112	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3201	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3202	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3203	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3204	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3206	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3207	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3209	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3210	ECJ2VB1C104K	ELECT	350V	100nF	
C3211	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3212	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3213	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3214	ECJ2VB1C104K	ELECT	350V	100nF	
C3215	ECUV1H103KBX	S.M. CAP	50V	10nF	

Cct Ref	Parts Number	Description		
C3216	ECA1CM330GB	ELECT	16V	33pF
C3217	ECJ2VB1C104K	ELECT	350V	100nF
C3401	ECQM1H224J	FILM	50V	220nF
C3402	ECUV1H101JCX	S.M. CAP	50V	100pF
C3403	ECA1HM101GB	ELECT	50V	100μF
C3404	ECQM1H224J	FILM	50V	220nF
C3405	ECUV1H180JCX	S.M. CAP	50V	18pF
C3406	ECUV1H271JCX	S.M. CAP	50V	270pF
C3407	ECUV1H271JCX	S.M. CAP	50V	270pF
C3408	ECA1HM101GB	ELECT	50V	100μF
C3601	ECA1HM101GB	ELECT	50V	100μF
JSE28	ECUV1H104KBX	S.M. CAP	50V	100nF
TERMINALS AND LINKS				
JK2301	JPJ841101320	RCA SOCKET		
JK3001	0350808500	SCART SOCKET		
JK3201	TJB8E028	AV TERMINAL		
SWITCHES				
S802	ESB92S11B	SWITCH		
S1251	EVQPB105K	SWITCH		
S1252	EVQPB105K	SWITCH		
S1253	EVQPB105K	SWITCH		
S1254	EVQPB105K	SWITCH		
S1255	EVQPB105K	SWITCH		
RELAYS				
RL580	DH12D1-O-Q	RELAY		
RL801	TSE1885-1	RELAY		

Cct Ref	Parts Number	Description		

SCHEMATIC DIAGRAMS FOR MODEL

TX-24DX1

(EURO-4 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTE

1. RESISTOR

All resistors are carbon 1/4W resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) ($k=1,000$, $M=1,000,000$)

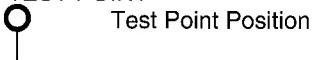
2. CAPACITORS

All capacitors are ceramic 50V unless marked otherwise.
Unit of capacitance is μF unless otherwise stated.

3. COIL

Unit of inductance is μH , unless otherwise stated.

4. TEST POINT



Test Point Position

5. EARTH SYMBOL



Chassis Earth (Cold)



Line Earth (Hot)

6. VOLTAGE MEASUREMENT

Voltage is measured by a d.c. voltmeter.
Measurement conditions are as follows:
Power source a.c. 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

7.



Indicates the Video signal path



Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

NOTE

1. The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

